

The transmitter comprises a data/modulation control section (4) which sets predetermined parameters necessary for demodulation processing, sub-carrier group modulation processing sections (6a to 8c) which perform frequency spreading for each sub-carrier signal in the sub-carrier group, and time spreading sections (10a to 10c) which multiplex all signals after the modulation processing and the frequency spreading for each sub-carrier signal, and perform time spreading with respect to the multiplexed signals. The receiver comprises time despreding sections (35a to 35c) which perform time despreding for each sub-carrier signal, and sub-carrier group demodulation processing sections (36a to 38c) which perform frequency despreding for each sub-carrier signal after the time despreding.